



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER FILING DA	re F	FIRST NAMED INVENTOR		ATTORNEY DOCKET N
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ROBERT SH. JORDAN		6M1/0721	ART UNIT	PAPER NUMBER
3M DEFICE OF INTE	ELLECTUAL PR	OPERTY		I/O
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Curchie ten			DATE MAILED:	07/21/94
This is a communication from the exar	niner in charge of your	application.	thi tear	0,7,54
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This application has been examin	ed Responsiv	e to communication filed on_	4-25-14	This action is mad
shortened statutory period for respo				rom the date of this letter.
allure to respond within the period to				
Part I THE FOLLOWING ATTACHS	IEMT(S) ARE PART OF	FTHIS ACTION: 101. 01	the decil	n . ;
<u> </u>				
1. Anotice of References Cited	•			atent Drawing Review, PT
3. Notice of Art Cited by Appl	cant, PTO-1449.		lotice of Informal Pater	nt Application, PTO-152.
5. Information on How to Effe	at Drawing Changes, P			
Pert II SUMMARY OF ACTION	4.	t is the open th	oten vignal	In
1. Claims this tartes	10 No. 15 6	Budge er i i	Transcort of	P
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୍ରଧିକର୍ଣ୍ଡ Of the above, dalms \underline{t}	to the item	<u> 12099 (* 510). a</u>	<u>CACTION</u>	è withdrawn from conside
2. 🖸 Claims and e in ord	lies the lies	the following made	concert he	1 have been cancelled.
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3. L Claims to fore rec	7.91.	<u>- Thachdal dia</u>	Tiraliale o	are allowed.
4. 1 Claims		13 net inc vot	· · · · · · · · · · · · · · · · · · ·	are rejected.
<u>K</u>		,		
5. L Claims	- 5		· · · · · · · · · · · · · · · · · · ·	are objected to.
6. Claims			_are subject to restrict	ion or election requiremen
7 This application has been file	d with informal drawing	number 37 C E D 1 85 which	ara acceptable for ever	minotion oursees
7. This application has been file	C 1.3 Dit i		are acceptable to taxa	пивиот рагрозез.
8. Formal drawings are required	In response to this Offi	ce action.		
9. The corrected or substitute dr	awings have been rece	ived on	Under 37	C.F.R. 1.84 these drawing
		on or Notice of Draftsman's P		
10. The proposed additional or s	shetituta ehaat(e) of dra	nvinos filed on	has (have) heen	Denominal by the
examiner; disapproved by				
11. The proposed drawing correct		. hashaa 5		d (
11. The proposed drawing correct	JON, 1180	, nas been 🗋 ap	proved; Ladisapprove	o (see explanation).
12. Acknowledgement is made of been filed in parent applica			filed copy has Deen	received not been rec
13. Since this application apppea	rs to be in condition for	allowance except for formal r	natters, prosecution as	to the merits is closed in
accordance with the practice				
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14. U Other				

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1. The following is a quotation of the first paragraph of 35 U.S.C. § 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The specification is objected to under 35 U.S.C. § 112, first paragraph, as failing to provide an enabling disclosure.

There is no control circuitry, block diagrams and/or flowcharts provided in the specification and the drawings to explain the following: how the vehicle calculates a time after the vehicle exits from the detection area at which the vehicle will not influence the period of the oscillator signal, measuring the inductance in order to recognize an environmental factor or change unrelated to the inductive sensor, measuring the inductance in order to identify changes not caused by vehicles, and therefore recognize that mechanical difficulties requiring maintenance has occurred, and adjusting reference values to reflect slow changes caused by environmental factors.

Applicant is cautioned about the inclusion of new matter into the specification.

2. Claims 1-13 are rejected under 35 U.S.C. § 112, first paragraph, for the reasons set forth in the objection to the

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specification.

3. Claims 1-10 and 13 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As to claims 1-2 and 5, the claim language "after vehicle exit from" of a said vehicle" does not make coherent sense. It should read --after the vehicle exits from--.

As to claim 2, "the ratio" lacks antecedent basis.

As to claim 6, line 14, "the values" is indefinite. It should be defined with greater specificity.

As to claim 7, line 8, the phrase "same dummy sensor" is unclear. There appears to be only one dummy sensor (see claim 8). The phrase "environmental factor" is indefinite. It should be defined with greater specificity.

As to claim 8, the phrase "environmental change" is indefinite. It should be defined with greater specificity.

As to claim 9, the preamble does not make coherent sense. It should be revised carefully. On lines 14-16, the phrase "in a predetermined range outside a threshold rate of change" does not make coherent sense.

As to claim 10, "the rate of frequency change" and "the sensor drive oscillator signal" lack antecedent basis.

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As to claim 13, the phrase "environmental factors" is indefinite. It should be defined with greater specificity. "The oscillator period" lacks antecedent basis.

Claims 2-4 are rejected as being dependent upon a rejected claim.

4. Claims 1-13 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-17 of U.S. Patent No. 5,278,555. Although the conflicting claims are not identical, they are not patentably distinct from each other because although '555 fails to explicitly claim all the steps of calculating of the claimed invention, which include, the time after the vehicle exits from the detection area "at which the vehicle will not influence the period of the oscillator signal", measuring the inductance in order to recognize an environmental factor or change unrelated to the inductive sensor, measuring the inductance in order to identify changes not caused by vehicles thereby recognizing mechanical difficulties, and adjusting reference values to reflect slow changes caused by environmental factors, all of the above steps are performed and calculated by the same processor 20 as claimed by '555. Although the claimed invention and '555 have various calculations performed by the same processor, both the claimed invention and '555 include the same structural elements,

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which include the sensors and circuits used to provide the necessary information to the processor. Therefore, one of ordinary skill in the art at the time of the invention would have readily recognized that the programming of a processor to perform various functions does not constitute an inventive step but an obvious design choice.

- 5. The obviousness-type double patenting rejection is a judicially established doctrine based upon public policy and is primarily intended to prevent prolongation of the patent term by prohibiting claims in a second patent not patentably distinct from claims in a first patent. In re Vogel, 164 USPQ 619 (CCPA 1970). A timely filed terminal disclaimer in compliance with 37 C.F.R. § 1.321(b) would overcome an actual or provisional rejection on this ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 C.F.R. § 1.78(d).
- 6. Applicant's arguments with respect to claims 1-13 have been considered but are deemed to be moot in view of the new grounds of rejection.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Lefkowitz whose telephone number is (703) 305-4816. The examiner can normally be reached on Monday-Thursday from 8:00AM-5:30PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Peng, can be reached on (703) 305-4392. The fax phone number for this Group is (703) 305-9508.

Any inquiry of a general nature or relating to the status of

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this application should be directed to the Group receptionist whose telephone number is $(703)\ 305-4750$.

Edward Lefkowitz July 13, 1994

BRENT SWARTHOUT PATENT EXAMINER GROUP 2600

Bent Swantout